

Contents

Abstracted/Indexed in/Cited in: API Abstracts; Chemical Engineering and Biotechnology Abstracts; Catalysts & Catalysis; Chem Inform; Chemical Abstracts; Current Contents: Engineering; Current Contents: Engineering Index; Current Contents: Physical, Chemical & Earth Sciences; Engineering, Technology & Applied Sciences; Metals Abstracts; Research Alert; SCISEARCH; Science Citation Index; Theoretical Chemical Engineering Abstracts. Also covered in the abstract and citation database SciVerse Scopus®. Full text available on SciVerse ScienceDirect®

Enhancing the performance of Co ₃ O ₄ /CNTs for the catalytic combustion of toluene by tuning the surface structures of CNTs S. Jiang and S. Song (PR China)	1
Low-temperature synthesis and characterization of rutile nanoparticles with amorphous surface layer for photocatalytic degradation of caffeine M. Krivec, R.A. Segundo, J.L. Faria, A.M.T. Silva and G. Dražić (Slovenia, Portugal)	9
Hybrid Cu–ZnO–ZrO ₂ /H-ZSM5 system for the direct synthesis of DME by CO ₂ hydrogenation G. Bonura, M. Cordaro, L. Spadaro, C. Cannilla, F. Arena and F. Frusteri (Italy)	16
Electrical and catalytic properties of cerium–tin mixed oxides in CO depollution reaction A. Vasile, V. Bratan, C. Hornoio, M. Caldararu, N.I. Ionescu, T. Yuzhakova and Á. Rédey (Romania, Hungary)	25
Electrochemical photocatalytic degradation of dye solution with a TiO ₂ -coated stainless steel electrode prepared by electrophoretic deposition W.-C. Lin, C.-H. Chen, H.-Y. Tang, Y.-C. Hsiao, J.R. Pan, C.-C. Hu and C. Huang (Taiwan)	32
Room-temperature catalytic removal of low-concentration NO over mesoporous Fe–Mn binary oxide synthesized using a template-free approach Z. Shu, Y. Chen, W. Huang, X. Cui, L. Zhang, H. Chen, G. Zhang, X. Fan, Y. Wang, G. Tao, D. He and J. Shi (PR China)	42
Effect of Sn surface states on the photocatalytic activity of anatase TiO ₂ F.E. Oropeza, B. Mei, I. Sinev, A.E. Becerikli, M. Muhler and J. Strunk (Germany)	51
Alkaline metals modified Pt–H ₄ SiW ₁₂ O ₄₀ /ZrO ₂ catalysts for the selective hydrogenolysis of glycerol to 1,3-propanediol S. Zhu, X. Gao, Y. Zhu, Y. Zhu, X. Xiang, C. Hu and Y. Li (PR China)	60
Optimization and an insightful properties—Activity study of electrospun TiO ₂ /CuO composite nanofibers for efficient photocatalytic H ₂ generation S.S. Lee, H. Bai, Z. Liu and D.D. Sun (Singapore)	68
Ozonation of bezafibrate promoted by carbon materials A. Gonçalves, J.J.M. Órfão and M.F.R. Pereira (Portugal)	82
Electrocatalytic destruction of the antibiotic tetracycline in aqueous medium by electrochemical advanced oxidation processes: Effect of electrode materials N. Oturan, J. Wu, H. Zhang, V.K. Sharma and M.A. Oturan (France, China, USA)	92
High-throughput screening of monometallic catalysts for aqueous-phase hydrogenation of biomass-derived oxygenates J. Lee, Y. Xu and G.W. Huber (USA)	98
Cu-modified TiO ₂ photocatalysts for decomposition of acetic acid with simultaneous formation of C ₁ –C ₃ hydrocarbons and hydrogen A. Heciak, A.W. Morawski, B. Grzmil and S. Mozia (Poland)	108
A highly efficient heterogeneous catalyst of Ru/MMT: Preparation, characterization, and evaluation of catalytic effect S. Peng, X. Fan, J. Zhang and F. Wang (PR China)	115
Co-B catalyst supported over mesoporous silica for hydrogen production by catalytic hydrolysis of Ammonia Borane: A study on influence of pore structure N. Patel, R. Fernandes, S. Gupta, R. Edla, D.C. Kothari and A. Miotello (Italy, India)	125
TiO ₂ –RuO ₂ electrocatalyst supports exhibit exceptional electrochemical stability C.-P. Lo, G. Wang, A. Kumar and V. Ramani (USA)	133

(Contents continued on bm I)

SciVerse ScienceDirect

Full text of this journal is available, on-line from **ScienceDirect**. Visit www.sciencedirect.com

